Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-01-04-17 **Date: 05-11-18**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 02-11-18

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 02-11-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.51	–
2	Finess by Air permeablity method (m^2/kg,Min)	276.6	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

FOR CIVIL Pro.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-04-17** **Date: 30-11-18**
Name of Work	:	Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura
Project Name	:	Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.
Agency	:	Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.
Customer's Reference	:	BBMP/EE/BTP/WO/159/2018-19
Date of Receipt	:	02-11-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-11-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

Assistant Executive Engineer
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Bruhat Bangalore ... Palike
Bangalore - 560 092

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-04-17** **Date: 05-11-18**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 02-11-18

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 02-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	302	302	2.0	98.0	90-100
3	20 mm	6254	6556	43.7	56.3	30-70
4	10 mm	5258	11814	78.8	21.2	10-35
5	4.75 mm	2815	14629	97.5	2.5	0-5
6	Pan	371	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-04-17** **Date: 05-11-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.21	–

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ADE (HQ)

Assistant Executive Engineer

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-04-17** **Date: 05-11-18**
Name of Work	:	Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura
Project Name	:	Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.
Agency	:	Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.
Customer Reference	:	BBMP/EE/BTP/WO/159/2018-19
Date of Receipt	:	02-11-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	197	197	3.9	96.1	90-100
3	10 mm	2309	2506	50.1	49.9	25-55
4	4.75 mm	2300	4806	96.1	3.9	0-10
5	Pan	194	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-04-17** **Date: 05-11-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.53	_
6	Water Absorption(%)	0.21	_
7	Aggregate crushing Value(%)	22.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

FOR CIVIL Pro.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-01-04-17** **Date: 05-11-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-18

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-11-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-01-04-17** **Date: 05-11-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.51	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asstt. Exe. Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 20/11/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 15-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	13/11/2018	20/11/2018	150.58 X 150.32 X 150.20	22636	**8.678**	421.3	18.6	18.4
2	Cement Concrete Pavement	M20	13/11/2018	20/11/2018	151.96 X 151.02 X 149.26	22948	**8.910**	418.2	18.2	
3	Cement Concrete Pavement	M20	13/11/2018	20/11/2018	151.41 X 151.12 X 149.04	22881	**8.473**	418.5	18.3	

Asst. Exe. Engr. (Tech.) Koramangala Byatarayanapura Sub Div. Bangalore

FOR CIVIL Pro.

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 11/12/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 15-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	13/11/2018	11/12/2018	149.75 X 149.45 X 151.56	22379	**8.436**	535.1	23.9	23.0
2	Cement Concrete Pavement	M20	13/11/2018	11/12/2018	150.89 X 149.83 X 150.70	22608	**8.551**	502.1	22.2	
3	Cement Concrete Pavement	M20	13/11/2018	11/12/2018	151.50 X 151.92 X 151.22	23016	**8.978**	529.5	23.0	

AE (Civil) N.D

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 20/11/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 15-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	13/11/2018	20/11/2018	151.90 X 150.89 X 151.68	22921	**8.678**	435.1	19.0	18.6
2	Cement Concrete Pavement	M20	13/11/2018	20/11/2018	150.90 X 149.14 X 151.21	22505	**8.910**	415.2	18.5	
3	Cement Concrete Pavement	M20	13/11/2018	20/11/2018	150.27 X 149.43 X 149.15	22455	**8.473**	411.2	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 11/12/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 15-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	13/11/2018	11/12/2018	150.60 X 150.83 X 149.80	22715	**8.436**	532.2	23.4	23.2
2	Cement Concrete Pavement	M20	13/11/2018	11/12/2018	149.60 X 149.78 X 150.09	22407	**8.551**	505.3	22.6	
3	Cement Concrete Pavement	M20	13/11/2018	11/12/2018	151.72 X 149.34 X 150.72	22657	**8.978**	534.3	23.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 20/11/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 15-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	13/11/2018	20/11/2018	149.69 X 150.41 X 150.75	22515	**8.678**	426.8	19.0	18.5
2	Cement Concrete Pavement	M20	13/11/2018	20/11/2018	151.14 X 151.60 X 149.42	22914	**8.910**	425.5	18.6	
3	Cement Concrete Pavement	M20	13/11/2018	20/11/2018	149.82 X 151.34 X 150.43	22673	**8.473**	410.6	18.1	

Assistant Executive Engineer
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 11/12/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 15-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	13/11/2018	11/12/2018	150.98 X 150.12 X 150.18	22664	**8.436**	534.5	23.6	23.2
2	Cement Concrete Pavement	M20	13/11/2018	11/12/2018	150.89 X 151.02 X 149.95	22788	**8.551**	523.0	23.0	
3	Cement Concrete Pavement	M20	13/11/2018	11/12/2018	150.28 X 151.99 X 149.71	22840	**8.978**	528.7	23.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 21/11/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 16-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	149.35 X 151.92 X 150.49	22690	**8.678**	429.8	18.9	18.8
2	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	150.56 X 149.54 X 150.44	22514	**8.910**	424.9	18.9	
3	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	151.10 X 149.04 X 149.41	22520	**8.473**	421.8	18.7	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE (LSH)

Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 12/12/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 16-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	151.42 X 150.97 X 151.99	22860	**8.436**	532.8	23.3	23.1
2	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	150.75 X 149.15 X 150.23	22485	**8.551**	503.4	22.4	
3	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	151.96 X 149.17 X 149.46	22668	**8.978**	535.4	23.6	

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Quality Manager

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Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 16-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	149.75 X 151.14 X 150.06	22633	**8.678**	429.8	19.0	18.7
2	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	150.72 X 151.18 X 150.69	22785	**8.910**	428.0	18.8	
3	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	149.03 X 150.65 X 151.90	22452	**8.473**	413.1	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

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Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 16-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	151.73 X 151.78 X 150.31	23029	**8.436**	534.0	23.2	23.1
2	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	151.92 X 149.24 X 150.14	22674	**8.551**	513.4	22.6	
3	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	150.89 X 151.13 X 149.63	22804	**8.978**	534.4	23.4	

Assistant Executive Engineer
Kodigehalli Sub Division
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 21/11/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 16-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	151.59 X 151.50 X 149.56	22966	**8.678**	415.9	18.1	18.1
2	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	149.20 X 151.73 X 151.86	22637	**8.910**	413.2	18.3	
3	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	150.75 X 151.89 X 151.23	22898	**8.473**	413.7	18.1	

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AE(WZ)

Assistant Executive Engineer
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Bangalore - 560 062

CIVIL PRO BANGALORE Sig..... Date.....

Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 12/12/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 16-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	150.35 X 150.98 X 151.17	22700	**8.436**	523.2	23.0	22.9
2	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	149.81 X 149.12 X 149.92	22340	**8.551**	493.6	22.1	
3	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	149.28 X 150.75 X 149.88	22505	**8.978**	531.0	23.6	

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Bangalore - 560 092

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Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 21/11/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 16-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	151.19 X 151.74 X 150.32	22942	**8.678**	424.2	18.5	18.3
2	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	150.75 X 150.60 X 150.93	22703	**8.910**	414.8	18.3	
3	Cement Concrete Pavement	M20	14/11/2018	21/11/2018	149.35 X 149.64 X 151.06	22348	**8.473**	407.1	18.2	

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Bangalore - 560 092

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R KARTHIK RECHAN
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Quality Manager

CIVIL PRO BANGALORE
Sig.....
Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 12/12/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 16-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	150.69 X 150.31 X 151.93	22649	**8.436**	537.7	23.7	23.5
2	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	149.41 X 150.95 X 149.24	22554	**8.551**	517.2	22.9	
3	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	150.41 X 149.26 X 149.80	22450	**8.978**	532.8	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-04-17** **Date: 12/12/2018**

Name of Work : Package - 4 includes 4 works of Rs.195.00 lakhs 1).Improvements to roads and drains near Hebbal Shanimahatma temple in Ward No.07, Byatarayanapura. 2).Improvements to roads and drains Amruthalli gramatana pending works and surrounding areas in Ward No.07, Byatarayanapura. 3).Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura. 4).Improvements to drains Hoysala Apartment towards Byatararayanapura in Ward No.07, Byatarayanapura

Project Name : Improvements to roads and drains Sanjeevinagara, Byatarayanapura and Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. Abhijit A, No. 09, Gurushree Nilaya, 5th Cross, 80 ft. Road, Padmanabhanagara, Bangalore - 560 070.

Customer's Reference : BBMP/EE/BTP/WO/159/2018-19

Date of Receipt : 16-11-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	150.69 X 150.31 X 151.93	22649	**8.436**	537.7	23.7	23.5
2	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	149.41 X 150.95 X 149.24	22554	**8.551**	517.2	22.9	
3	Cement Concrete Pavement	M20	14/11/2018	12/12/2018	150.41 X 149.26 X 149.80	22450	**8.978**	532.8	23.7	

AE (HRT)

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY (STRUCTURAL/ GEO TECHNICAL) PROJECT MANAGEMENT/ SURVEYING SERVICES /